

PROJECT DESCRIPTION

GENERAL

THIS PROJECT INVOLVES THE MODIFICATION OF TRAFFIC SIGNALS AT THE INTERSECTION OF MD 710 AT CHESAPEAKE CENTER/ARUNDEL CORPORATION DR IN ANNE ARUNDEL COUNTY DUE TO GEOMETRIC CHANGES. MD 710 IS ASSUMED TO RUN IN AN EAST/WEST DIRECTION.

INTERSECTION OPERATION

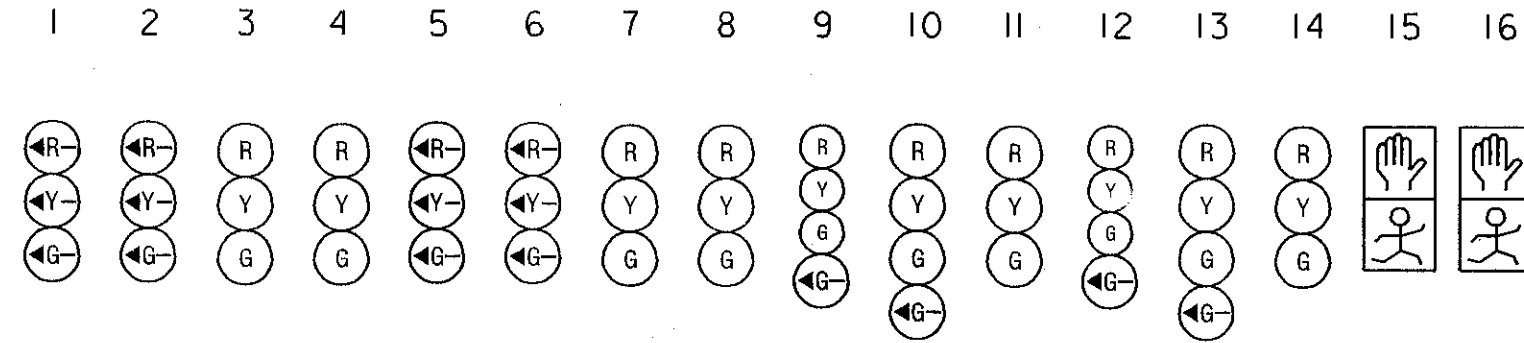
NORMAL OPERATION

THE INTERSECTION WILL OPERATE IN A NEMA-SIX-PHASE FULLY ACTUATED MODE. THE MOVEMENTS ON MD 710 WILL OPERATE CONCURRENTLY. THE MOVEMENTS ON CHESAPEAKE CENTER/ARUNDEL CORPORATION DR WILL OPERATE CONCURRENTLY.

SPECIAL NOTE

ALL UTILITIES SHOWN ON THESE PLANS ARE SCHEMATIC AND ARE NOT TO BE CONSIDERED COMPLETE BECAUSE THESE UTILITIES MAY BE MODIFIED PRIOR TO AND DURING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING ALL UTILITY COMPANIES PRIOR TO CONSTRUCTION SO THAT ALL UTILITIES MAY BE LOCATED IN THE FIELD. IF THE CONTRACTOR PERCEIVES THAT A CONFLICT BETWEEN THE UTILITIES AND THE TRAFFIC SIGNAL EQUIPMENT WILL OCCUR, THE CONTRACTOR SHALL NOTIFY THE PROJECT MANAGER IMMEDIATELY.

PHASE CHART



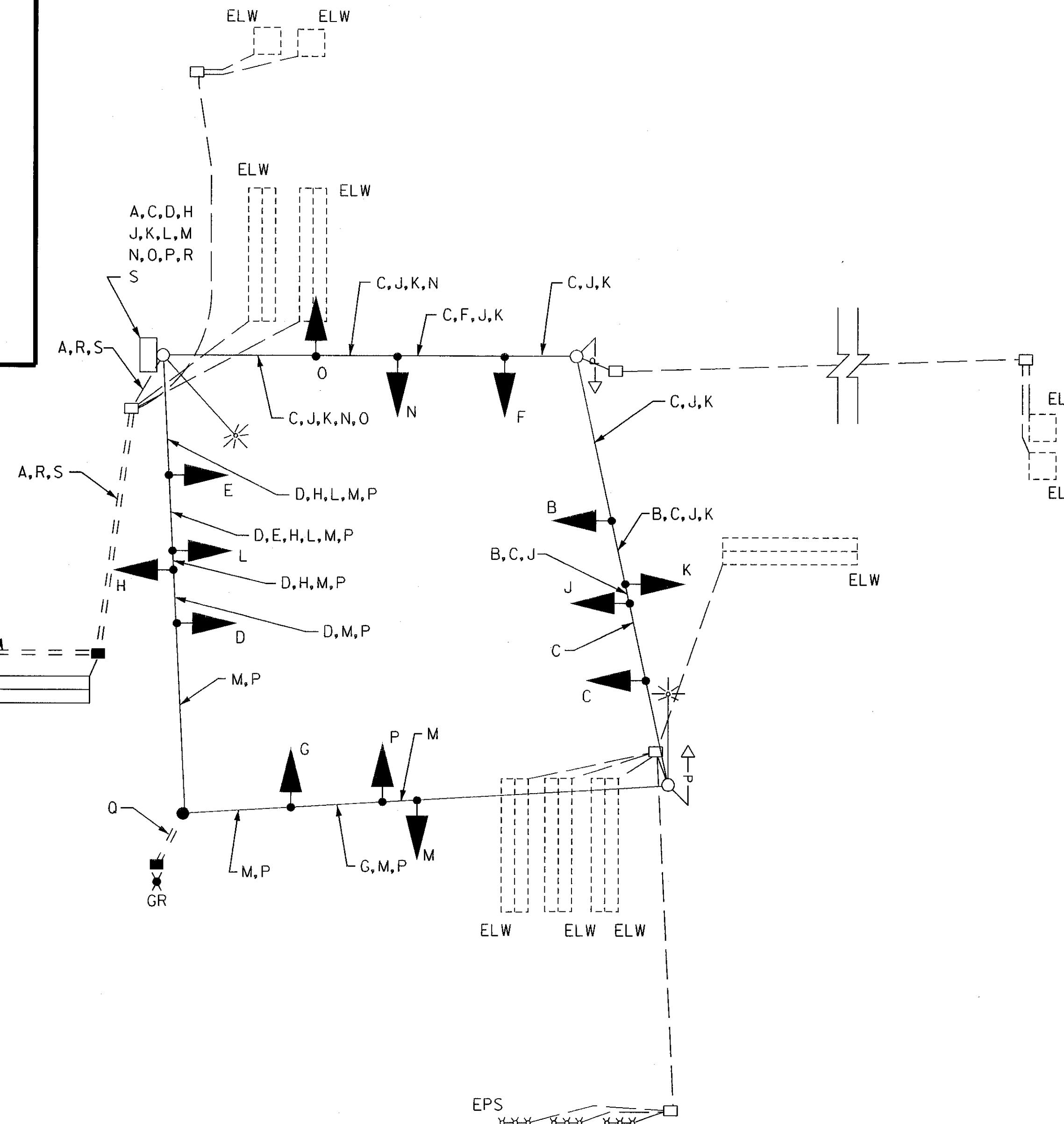
PHASE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
PHASE 1+5	←G←	←G←	R	R	←G←	←G←	R	R	R	R	R	R	R	R	DW	DW
1+5 CHANGE	←Y←	←Y←	R	R	←Y←	←Y←	R	R	R	R	R	R	R	R	DW	DW
PHASE 2+6	←R←	←R←	G	G	←R←	←R←	G	G	R	R	R	R	R	R	DW	DW
2+6 CHANGE	←R←	←R←	Y	Y	←R←	←R←	Y	Y	R	R	R	R	R	R	DW	DW
PHASE 3	←R←	←R←	R	R	←R←	←R←	R	R	←G←	←G←	G	R	R	R	DW	DW
3 CHANGE	←R←	←R←	R	R	←R←	←R←	R	R	Y	Y	Y	R	R	R	DW	DW
PHASE 4	←R←	←R←	R	R	←R←	←R←	R	R	R	R	R	←G←	←G←	G	WALK	WALK
4 CHANGE	←R←	←R←	R	R	←R←	←R←	R	R	R	R	R	Y	Y	Y	FL/DW	FL/DW
FLASHING OPERATION	FL	FL	FL	FL	FL	FL	FL	FL	FL	FL	FL	FL	FL	FL	DARK	DARK

EQUIPMENT LIST A

A. EQUIPMENT TO BE FURNISHED BY THE SHA

CAT CODE NUMBER	SPEC. SECTION	QUANTITY	DESCRIPTION
973023	813	56 S.F.	SHEET ALUMINUM SIGN TO CONSIST OF: -2 EA. R3-5L (LEFT TURN ONLY) 30 IN. X 36 IN. - SPAN MOUNT -3 EA. R3-5R (RIGHT TURN ONLY) 30 IN. X 36 IN. - SPAN MOUNT -1 EA. R3-6L (LEFT/THRU ONLY) 30 IN. X 36 IN. - SPAN MOUNT -1 EA. D-3(1) (STREET NAME) DUAL FACED 96 IN. X 16 IN. - SPAN MOUNT

WIRING DIAGRAM



EQUIPMENT LIST B

B. EQUIPMENT TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR

CAT CODE NUMBER	SPEC. SECTION	QUANTITY	DESCRIPTION
203030	205	3 C.Y.	TEST PIT EXCAVATION
585462	555	51 L.F.	REMOVAL OF EXISTING PERMANENT PAVEMENT LINE MARKINGS - ANY WIDTH
585624	556	60 L.F.	24 IN. HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING
802501	805	15 L.F.	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
805115	805	50 L.F.	3 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT-BORED
805135	805	300 L.F.	3 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT-TRENCHED
805150	805	110 L.F.	3 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT-SLOTTED
805160	805	15 L.F.	1 IN. LIQUID TIGHT FLEXIBLE NON METALLIC CONDUIT
810555	810	2 EA.	MICRO PROBE SET, 1000 FT. LEAD IN CABLE
811001	811	5 EA.	ELECTRICAL HANDHOLE
813015	813	56 S.F.	INSTALL OVERHEAD SIGN
837001	804	1 EA.	GROUND ROD 2IN. DIAMETER X 10 FT. LENGTH
860270	814	6 EA.	8 IN. VEHICULAR BLACK FACED TRAFFIC SIGNAL HEAD SECTION
860272	814	40 EA.	12 IN. VEHICULAR BLACK FACED TRAFFIC SIGNAL HEAD SECTION
861104	810	110 L.F.	ELECTRICAL CABLE 2-CONDUCTOR (ALUMINUM SHIELDED NO. 14 AWG)
861107	810	410 L.F.	ELECTRICAL CABLE 5-CONDUCTOR (NO. 14 AWG)
861108	810	1120 L.F.	ELECTRICAL CABLE 7-CONDUCTOR (NO. 14 AWG)
862101	805	450 L.F.	LOOP WIRE ENCASED IN FLEXIBLE TUBING (NO. 14 AWG)
862102	805	110 L.F.	SAW CUT FOR SIGNAL (LOOP DETECTOR)
867103	818	1 EA.	12 FT. X 30 IN. STRAIN POLE WITH BACK GUYS AND ANCHOR BOLTS
869101	819	220 L.F.	1/4 IN. STEEL SPAN WIRE
869102	819	220 L.F.	3/8 IN. STEEL SPAN WIRE
800000	XXX	1 L.S.	REMOVE AND DISPOSE OF EXISTING MATERIAL AND EQUIPMENT

EQUIPMENT LIST C

C. EXISTING EQUIPMENT TO BE REMOVED BY THE CONTRACTOR AND DELIVERED TO THE STATE HIGHWAY ADMINISTRATION 7491 CONNELLEY DR. HANOVER, MD 21076. THE CONTRACTOR SHALL NOTIFY THE SHA AT (410) 787-7652 AT LEAST THREE DAYS IN ADVANCE OF DELIVERY.

NONE

PROJECT CONTACTS

THE CONTACT PERSONS FOR DISTRICT #5 ARE AS FOLLOWS:

EDWARD RODENHIZER
CHIEF, SHA TRAFFIC SIGNALS SHOP
PHONE: 410-787-7650

RICHARD DAFF, SR
CHIEF, TRAFFIC OPERATIONS DIVISION
PHONE: 410-787-7630

MARK COBLENTZ
ASSISTANT DISTRICT ENGINEER-CONSTRUCTION
PHONE: 410-841-1004

KIMBERLY TRAN
ASSISTANT DISTRICT ENGINEER-TRAFFIC
PHONE: 410-841-1003

CHARLES GEORGE
ASSISTANT DISTRICT ENGINEER-MAINTENANCE
PHONE: 410-841-1002

JOHN MAYS
UTILITIES ENGINEER
PHONE: 410-841-1005

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION

MD 710 & CHESAPEAKE CENTER DRIVE
/ARUNDEL CORP. DR

THE WILSON T. BALLARD CO.
CONSULTING ENGINEERS
OWINGS MILLS, MARYLAND

DRAWN BY: M.A.M.	F.A.P. NO. S.H.A. NO.	TS NO. TS-3170D	SHEET NO.
CHECKED BY: M.A.M.	COUNTY: ANNE ARUNDEL	T.I.M.S. NO. 6039	9 OF 2
SCALE: NONE	LOG MILE: 02071000.25		
DATE: 7-31-91			